

Math 322: Applied Differential Equations II

SPRING 2013

Instructor: Gregg Waterman, 176 Boivin Hall, 885-1324, gregg.waterman@oit.edu

Web Page: <http://tangent.oit.edu/~watermang/> There is a link there to a page for our class.

Office Hours: 10-10:50 MWRF, 11-11:50 R. You are also welcome to drop in any time to see if I am around - if I am I can usually take some time to help you. **I can also make appointments for other times.**

Learning Resources: We will refer to the Schaum's outline for examples and exercises. Otherwise, we'll use resources that can be viewed on the Internet, or downloaded from there at no cost. The course web page will have links to those sites. I may also write up a few things and pass them out as we go.

Course Goals and Objectives: After completing this course, students will be able to

1. Solve a matrix system of differential equations.
2. Use Laplace transforms to solve differential equations.
3. Solve differential equations via power series.
4. Communicate mathematical ideas using correct and appropriate notation.

Grading: Your grade will be based on your scores on assignments, quizzes and exams.

- *Assignments:* Each assignment will have a due date and time, but I will give credit for late assignments if you get them to me before I grade the whole batch. Any assignment turned in after I have graded that assignment will receive no credit. **Assignments must be done in a neat, organized manner in order to earn credit.**
- *Quizzes:* Quizzes will be announced ahead of time.
- *Regular Exams:* There will be two exams given during the term. **You MUST take exams at the scheduled times and there will be no make-up for missed exams.** See the schedule at the end of this syllabus for exam dates. Make-up exams can be given for previously arranged absences if you have a good reason to miss an exam.
- *Final Exam:* The final will be given during the time period listed in the calendar below. It will be partially comprehensive. **You MUST take the final at the designated time, so make all travel arrangements accordingly.**

Grades will be computed from the above as follows:

- All exams, including the final. will be worth 100 points.
- Each assignment point or quiz point is equivalent to one point on exams. The portion of your grade that these will comprise will depend on the number of assignments and quizzes, and how much each is worth. I expect that the assignments and quizzes will end up being 25-40% of your course grade.

The percentage of points possible that are earned will be computed, and you will receive a letter grade using the grading scale 90-100% \Rightarrow A, 80-89% \Rightarrow B, 70-79% \Rightarrow C, 60-69% \Rightarrow D, and below that is an F.

Other Things of Importance:

- *Incomplete Grades:* An incomplete grade can only be assigned to you under the following circumstances:
 1. You are passing the course, or you are very close to passing AND have shown good effort (regular attendance, assignments turned in).
 2. You have a SERIOUS problem that begins after the withdraw date and prevents you from being able to complete the term.

An incomplete grade will definitely not be assigned in the event that you are not performing well in the course and fear that you may not obtain a passing grade!
- *Disabilities:* If you have, or think you have, a disability that could affect your performance in this course, you can tell me outside of class or contact Bill Proebstel, Campus Access & Equal Opportunity, at 541-851-5227.

Calendar: Below are some important dates for the term.

April 24th - Exam One

May 17th - Last day to withdraw with a "W"

May 23rd - Exam Two

May 27th - Memorial Day Holiday - no class

Tuesday, June 11th, 8:00 AM - 10:00 AM - Final Exam